ADR EDITORIAL INDEX

Volume 72 (1983)

Entries to the right of title indicate month of issue and page number where story begins.

Bleaching
Continuous Jet Machine For Knit Bleaching And Washing (Schwartzman) Apr./23

Buyers' Guide
Process Controls Buyers' Guide Listings Nov./17
Special Issue: Annual New Products Review Dec./15

Carpets
New Dyeing Technology For The Carpet Industry (ADR Staff) Jun./21
New Antimicrobial Treatment For Carpet Applications (McGee, Malek, White) Jun./24
Control Of Carpet Dyeing Through Polymer Chemistry (Finney, Hines, Moates, Rogers) Jun./29
Basics Of Primary And Secondary Carpet Backings (Heyn) Jun./32
Printing Carpets With Unique Gym Systems (Brownewell) Jul./22

Control Systems
Special Report—ACS Announces New Visual Color System (ADR Staff) Mar./19
Overcoming Shade Variations Through On-Line Color Control (Braddy) Sept./24

Dyeing
Weft Knit Primer For Dyes And Finishers, Part II Yield And Pilling Properties (Smith, Seastrunk) Jan./18
Dyeing And Color Relationships In Nylon And Polyester Substitutes With 1-Amino-4-Hydroxyanthraquinone (Siddiqui, Needles) Jan./22
New Malonic Acid Dyes For PET And Pet/Cotton Blends (Daniels) Jan./26
Ozonation Of Dyes: Reaction Of Chrysophenine G With Ozone In Water (Matsui, Hibino, Shibata, Takase) Jan./35
Photofading Of Azo Dyes In Selected Solvents (Alberghina, Arcoria, et al) Mar./21
Metals In Dyes, Dyeing And Printing (Kramrisch) Mar./24
Determining The Solubility Parameter Of Dyes (Siddiqui) Mar./30
Weft Knit Primer For Dyes And Finishers: Part III-Structural Characteristics Of Selected Single Jersey Structures (Smith, Seastrunk) Apr./24
Lignin Dyes For Nylon And Wool (Mansour, Nagaty, Nagieb, Nossier) Apr./28
Dye Solubility By Solubility Method (Siddiqui) Apr./36
Solution-Dyed Polyester—Another Available Fiber Variation (Upton) May/27
Weft Knitting Primer For Dyeing And Finishing: Part IV—Selected Rib Structures (Smith, Seastrunk) Jun./42
Wet-On-Wet Finishing And Dyeing (Feehery) Jun./48
New Malonic Acid Dyes For pet1cotton Blends (Daniels, Whaley) Jul./26
Short Time Dyeing Of Acrylics With Benzyl Alcohol: Using Fiber Dye Content In Williams, Landel, And Ferry Equation (Alberti) Aug./46
Don't Forget The Dye Fundamentals (Edwards) Sept./23
Color Selection And General Procedures For Dyeing Wool/Polyester Blends (Balchin) Sept./27
One-Bath Dyeing Of Polyester/Cotton Blends (Sato) Sept./30
Dyeing Of Cotton Knits (Norris) Sept./40
Effect Of Gamma Irradiation On Reactive Dyes On Cotton (Kharadly, Shakra, Ibrahim, Salid) Oct./35
Ozonation Of Dyes VI: Reaction Of Chrysophenine G With Ozone In Water (Matsui, Hibino, Shibata, Takase) Oct./40
Effect Of Dyeing Of Substituents On Benzothiazolylazo Disperse Dyes (Seu, DeGiorgi) Oct./46
Simultaneous Dyeing And Finishing Of Cottons-Part I: Factors Affecting The One-Step Process (Kamel, Kharadly, Youssef) Nov./32
Dyeing Properties Of Pan/Nylon 6 Graft Copolymer Part I: Dyeing With Acid Dyes (El-Shahed, Shalaby, Kamel) Nov./42
Simultaneous Dyeing And Finishing Of Cottons-Part II: Application Of Different Dye Types (Kamel, Kharadly, Youssef) Dec./40

Energy Conservation
Heat Recovery With Condensing Heat Exchangers (Gordon) Oct./23

Equipment
New Dyeing Technology For The Carpet Industry (ADR Staff) Jun./21
Process Study Of The Mach-Nozzle As A Fluids Remover For Fabrics (Van Der Linden, Wassink) May/16

Exhibitions
Listing Of Exhibitors And Products—The ITMA '83 Show Milan, Italy Oct. 10-19 (ADR Staff) Aug./23
Complete Guide To Milan And The Surrounding Area (ADR Staff) Aug./51

Finishing
Weft Knit Primer For Dyers And Finishers, Part II-Yield And Pilling Properties (Smith, Seastrunk) Jan./18
Process Study Of The Mach-Nozzle As A Fluids Remover For Fabrics (Van Der Linden, Wassink) May/16
Mild Cure Catalyst Gives DP With Low Formaldehyde Release (Reeves, Salleh, Abu) May/22
New Ultra-Low H_2CO Resins (North) May/323
Wet-On-Wet Finishing And Dyeing (Feehery) Jun./48
Overcoming Wetfastness Problems On Acid Dyed Polyamide Fibers With Dye Fixatives (Christie) Sept./36
Effect Of Catalysts On Rot-Proofing Cotton-Containing DP Fabrics (Hebeish, El-Kharadly, Ibrahim) Oct./42
Simultaneous Dyeing And Finishing Of Cottons Part I: Factors Affecting The One-Step Process (Kamel, Kharadly, Youssef) Nov./32
Simultaneous Dyeing And Finishing Of Cottons-Part II: Application Of Different Dye Types (Kamel, Kharadly, Youssef) Dec./40
Rot-Proofing Of Chemically Modified Cottons (Kharadly, Youssef, Kamel) Dec./35

Flame Retardants
What's Next For Fire Resistant Textiles? (Reeves) Jan./16

Heat Transfer Printing
New Approaches For Heat Transfer Printing Nylon 6 (Hebeisch, Kashouti, El-Thalouth) Feb./24
Cotton HT Printer With Vinylsulfonyl Azo Reactive (Nishida, Tanaka, Iwamoto, Kanamori) Feb./30
HT Printing Of Chemically Modified Cotton (El-Kharadly, Kashouti, Hagag, Kamel) Nov./39

Management
The Market For Print Paste Thickeners (Obenski) Feb./33
How To Select A Chemical Distributor (Koppenhofer) Jul./24
Operating Cost Reductions In Batch Dyeing (Jones) Sept./25

Nonwovens
Binder And Chemical Usage In Bonded (Nonwoven) Fabrics (Obenski) Mar./34

Preparation
Polycot Solvent Pretreated For Disperse/Vat Dyeing (Hanna, Shakra, Kamel) Sept./41

Printing
Sodium Alginate: A Textile Printing Thickener (Rompp) Feb./31
Printing Carpets With Unique Gum Systems (Brownewell) Jul./22

ADR EDITORIAL INDEX

Volume 72 (1983)

Entries to the right of title indicate month of issue and page number where story begins.

Bleaching
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Buyers' Guide
Process Controls Buyers' Guide Listings Nov./17
Special Issue: Annual New Products Review Dec./15

Carpets
New Dyeing Technology For The Carpet Industry (ADR Staff) Jun./21
New Antimicrobial Treatment For Carpet Applications (McGee, Malek, White) Jun./24
Control Of Carpet Dyeing Through Polymer Chemistry (Finney, Hines, Moates, Rogers) Jun./29
Basics Of Primary And Secondary Carpet Backings (Heyn) Jun./32
Printing Carpets With Unique Gym Systems (Brownewell) Jul./22

Control Systems
Special Report—ACS Announces New Visual Color System (ADR Staff) Mar./19
Overcoming Shade Variations Through On-Line Color Control (Braddy) Sept./24

Dyeing
Weft Knit Primer For Dyes And Finishers, Part II Yield And Pilling Properties (Smith, Seastrunk) Jan./18
Dyeing And Color Relationships In Nylon And Polyester Substitutes With 1-Amino-4-Hydroxyanthraquinone (Siddiqui, Needles) Jan./22
New Malonic Acid Dyes For PET And Pet/Cotton Blends (Daniels) Jan./26
Ozonation Of Dyes: Reaction Of Chrysophenine G With Ozone In Water (Matsui, Hibino, Shibata, Takase) Jan./35
Photofading Of Azo Dyes In Selected Solvents (Alberghina, Arcoria, et al) Mar./21
Metals In Dyes, Dyeing And Printing (Kramrisch) Mar./24
Determining The Solubility Parameter Of Dyes (Siddiqui) Mar./30
Weft Knit Primer For Dyes And Finishers: Part III-Structural Characteristics Of Selected Single Jersey Structures (Smith, Seastrunk) Apr./24
Lignin Dyes For Nylon And Wool (Mansour, Nagaty, Nagieb, Nossier) Apr./28
Dye Solubility By Solubility Method (Siddiqui) Apr./36
Solution-Dyed Polyester—Another Available Fiber Variation (Upton) May/27
Weft Knitting Primer For Dyeing And Finishing: Part IV—Selected Rib Structures (Smith, Seastrunk) Jun./42
Wet-On-Wet Finishing And Dyeing (Feehery) Jun./48
New Malonic Acid Dyes For pet1cotton Blends (Daniels, Whaley) Jul./26
Short Time Dyeing Of Acrylics With Benzyl Alcohol: Using Fiber Dye Content In Williams, Landel, And Ferry Equation (Alberti) Aug./46
Don't Forget The Dye Fundamentals (Edwards) Sept./23
Color Selection And General Procedures For Dyeing Wool/Polyester Blends (Balchin) Sept./27
One-Bath Dyeing Of Polyester/Cotton Blends (Sato) Sept./30
Dyeing Of Cotton Knits (Norris) Sept./40
Effect Of Gamma Irradiation On Reactive Dyes On Cotton (Kharadly, Shakra, Ibrahim, Salid) Oct./35
Ozonation Of Dyes VI: Reaction Of Chrysophenine G With Ozone In Water (Matsui, Hibino, Shibata, Takase) Oct./40
Effect Of Dyeing Of Substituents On Benzothiazolylazo Disperse Dyes (Seu, DeGiorgi) Oct./46
Simultaneous Dyeing And Finishing Of Cottons-Part I: Factors Affecting The One-Step Process (Kamel, Kharadly, Youssef) Nov./32
Dyeing Properties Of Pan/Nylon 6 Graft Copolymer Part I: Dyeing With Acid Dyes (El-Shahed, Shalaby, Kamel) Nov./42
Simultaneous Dyeing And Finishing Of Cottons-Part II: Application Of Different Dye Types (Kamel, Kharadly, Youssef) Dec./40

Energy Conservation
Heat Recovery With Condensing Heat Exchangers (Gordon) Oct./23

Equipment
New Dyeing Technology For The Carpet Industry (ADR Staff) Jun./21
Process Study Of The Mach-Nozzle As A Fluids Remover For Fabrics (Van Der Linden, Wassink) May/16

Exhibitions
Listing Of Exhibitors And Products—The ITMA '83 Show Milan, Italy Oct. 10-19 (ADR Staff) Aug./23
Complete Guide To Milan And The Surrounding Area (ADR Staff) Aug./51

Finishing
Weft Knit Primer For Dyers And Finishers, Part II-Yield And Pilling Properties (Smith, Seastrunk) Jan./18
Process Study Of The Mach-Nozzle As A Fluids Remover For Fabrics (Van Der Linden, Wassink) May/16
Mild Cure Catalyst Gives DP With Low Formaldehyde Release (Reeves, Salleh, Abu) May/22
New Ultra-Low H_2CO Resins (North) May/323
Wet-On-Wet Finishing And Dyeing (Feehery) Jun./48
Overcoming Wetfastness Problems On Acid Dyed Polyamide Fibers With Dye Fixatives (Christie) Sept./36
Effect Of Catalysts On Rot-Proofing Cotton-Containing DP Fabrics (Hebeish, El-Kharadly, Ibrahim) Oct./42
Simultaneous Dyeing And Finishing Of Cottons Part I: Factors Affecting The One-Step Process (Kamel, Kharadly, Youssef) Nov./32
Simultaneous Dyeing And Finishing Of Cottons-Part II: Application Of Different Dye Types (Kamel, Kharadly, Youssef) Dec./40
Rot-Proofing Of Chemically Modified Cottons (Kharadly, Youssef, Kamel) Dec./35

Flame Retardants
What's Next For Fire Resistant Textiles? (Reeves) Jan./16

Heat Transfer Printing
New Approaches For Heat Transfer Printing Nylon 6 (Hebeisch, Kashouti, El-Thalouth) Feb./24
Cotton HT Printer With Vinylsulfonyl Azo Reactive (Nishida, Tanaka, Iwamoto, Kanamori) Feb./30
HT Printing Of Chemically Modified Cotton (El-Kharadly, Kashouti, Hagag, Kamel) Nov./39

Management
The Market For Print Paste Thickeners (Obenski) Feb./33
How To Select A Chemical Distributor (Koppenhofer) Jul./24
Operating Cost Reductions In Batch Dyeing (Jones) Sept./25

Nonwovens
Binder And Chemical Usage In Bonded (Nonwoven) Fabrics (Obenski) Mar./34

Preparation
Polycot Solvent Pretreated For Disperse/Vat Dyeing (Hanna, Shakra, Kamel) Sept./41

Printing
Sodium Alginate: A Textile Printing Thickener (Rompp) Feb./31
Printing Carpets With Unique Gum Systems (Brownewell) Jul./22

Reviews
American Dyestuff Reporter Editorial Index, 1982 (*ADR Staff*) *Jan./43*

Safety
Safety—Its Meaning (*Kliesch*) *Jan./15*

Soil Removal
Chemical Factors Affecting Soiling And Soil Release From Cotton DP Fabric: Part XII Copolymerization Of Cotton With Polyacrylonitrile (*Hebeish, Waly, Abou-Zeid, El-Alfy*) *Jul./15*
Chemical Factors Affecting Soiling And Soil Release From Cotton DP Fabric: Part XIII—Polymerization Of Styrene And Glycidyl Methacrylate (*Hebeish, Waly, Abou-Zeid, El-Alfy*) *Aug./49*
Chemical Factors Affecting Soiling And Soil Release From Cotton DP Fabric: Part XIV—Grafting With Polyacrylamide (*Hebeish, Elkharadly, Fattah, Nasr*) *Sept./48*
Chemical Factors Affecting Soiling And Soil Release *From Cotton DP Fabrics: Part XV—Copolymerization With Mixtures Of Vinyl Monomers* (*Hebeisch, Abou-Zeid, Waly, El-Alfy*) *Oct./25*

Surfactants
Working With Surfactants In Fabric Preparation (*Nahta*) *Feb./14*
Cationic Surfactants To Level Basic Dyes On Acrylics (*Gawish, Shakra*) *Feb./20*

Flame Retardant Buyers' Guide
[Continued from page 21]

USP-4,348,306						
" F/RP-71 USP-3,974,310	Brominated cyclic compounds	Liquid	Polyester	4-10	FF3-71, FF5-76, MVSS-302	$1.65 T/L
" P-95	Sb_2O_3	Aqueous dispersion	Jute, PVC compounding and others	5-20	N.A.	$1.65 T/L

Witco Chemical Corp.
Pearsall Chemical Division
Houston, Tx. 77001

Pearsall CPF, Flexchlor	Chlorinated paraffins	Liquid	Carpet Backing	10-30	ASTM D-2859	.515-.585
Fyarestor 100	Bromochloro-paraffin	Liquid	Cotton, cotton/polyester	20-40	CPAI 84	.73
" 102	Bromochloro-paraffin	Liquid	Polyester	5-10	NFPA-702	.73
" 330	Bromine-phosphorus	Liquid	Rayon, polyester (non-wovens)	8-25	UL-900	.46
" 205	Bromine & Chloride	Liquid	Nylon, polyester	10-30	UL-84, NFPA-701, 702	N.A.

Electron Beam. . .
[Continued from page 38]

boxyl groups via co-polymerization of methacrylic acid using gamma irradiation from a Co^{60} source.[5] The irradiated fabrics, wherein free radicals were generated by gamma irradiation, were immersed in a methanol/water solution containing methacrylic acid. Attempts to introduce carboxyl groups via solid state polymerization of methacrylic acid were partly successful. The results of carboxyl group determination of the modified fabrics given in Tables III and IV indicate that very few carboxyl groups were introduced into the cotton and consequently the modified fabrics showed poor soil release properties (Tables IV and V).

Another approach to introduce carboxyl groups into cotton cellulose is through saponification of amide groups of the plyacrylamide grafted cotton fabrics.[6] Table VII gives nitrogen contents and breaking strengths of the fabrics which had been treated with an aqueous solution of acrylamide by pad/dry process and irradiated with an electron beam. The irradiated fabrics retailed 52 to 66% of the nitrogen after washing. The results of nitrogen and breaking strengths suggest that 2 megarad of radiation using an electron beam were sufficient for polymerization of acrylamide. The results of carboxyl content determinations after alkaline hydrolysis of polyacrylamide-grafted cotton fabrics are shown in Table VII, and the soiling and soil removal properties of the modified fabrics having amide/carboxyl groups are given in Table VIII.

REFERENCES

(1) Kardashian, R., "Electron Processing for the 1980's Economic and Technological Consideration," pp. 225-228. Book of Papers, 1980 Ntional Technical Conference of AATCC.
(2) Dave, A.M. and Kissa, E., "A Rapid and Reproducible Transfer Soiling Method," pp. 650-655. *Textile Research Journal, 50,* (1981).
(3) Reinhardt, R.M., Fenner, T.W., and Reid, J.D., "The Nonaqueous Carboxymethylatin of Cotton," pp. 873-877. *Textile Research Journal, 27,* (1957).
(4) Reeves, W.A., Summers, T.A. and Reinhardt, R.M., "Soiling, Staining, and Yellowing Characteristics of Fabrics Treated With Resin or Formaldehyde," pp. 711-717. *Textile Research Journal, 50,* (1980).
(5) Mares, T., Arthur, J.C., and Harris, J.A., "Soil Release and Textile Properties of Cotton/Polyester-Poly (Methacrylic Acid)
(6) Kung, F.E. U.S. Patent 2,373,190 (1945).